Thermistor
(271-0110)

Resistance Temperature Table

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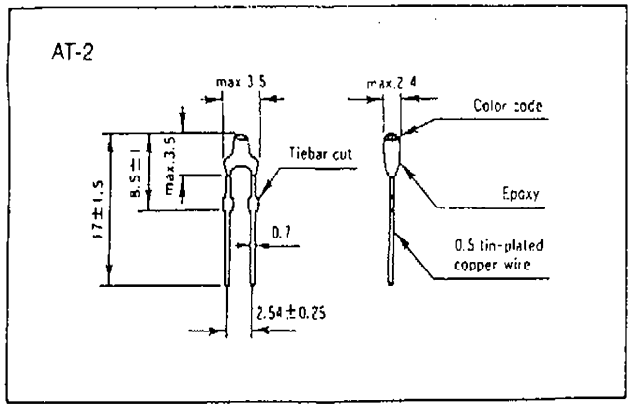

Specifications

Type	R_{25} *1	B value *2	Dissipation factor (mW/℃)	Thermal Time constant(s) *3	Rated power at 25℃ (mW)	Operating temp. range(℃)
102AT-1(2)	1kΩ ±1%	3100K±1%	3(2)	75(15)	15(10)	−50~90(−50~90)
202AT-1(2)	2kΩ ±1%	3182K±1%	〃	〃	〃	〃
502AT-1(2)	5kΩ ±1%	3324K±1%				−50~105(−50~110)
103AT-1(2)	10kΩ ±1%	3435K±1%	〃	〃	〃	〃
203AT-2	20kΩ ±1%	4013K±1%	2	15	10	−50~110
503AT-2	50kΩ ±3%	4060K±1%	〃	〃	〃	〃

※1 R_{25}: Nominal zero-power resistance value at 25℃
※2 B value determined by nominal zero-power resistance at 25℃ and 85℃
※3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air.

Resistance-Temperature

Temp.(℃)	102AT	202AT	502AT	103AT	203AT	503AT	Temp.(℃)	102AT	202AT	502AT	103AT	203AT	503AT
−50	24.45	55.62	154.5	329.2			35	0.7229	1.424	3.508	6.941	13.06	32.49
−45	18.67	42.14	116.5	247.5			40	0.6190	1.211	2.962	5.828	10.65	26.43
−40	14.42	32.31	88.85	188.4	641.5	1631	45	0.5317	1.033	2.510	4.912	8.718	21.59
−35	11.23	24.95	68.15	144.0	465.5	1185	50	0.4588	0.8856	2.138	4.161	7.182	17.75
−30	8.830	19.47	52.84	111.3	342.3	872.2	55	0.3968	0.7622	1.826	3.537	5.942	14.65
−25	6.995	15.28	41.19	86.39	253.5	645.9	60	0.3447	0.6589	1.568	3.021	4.945	12.16
−20	5.592	12.11	32.43	67.74	189.9	484.0	65	0.3001	0.5714	1.351	2.589	4.128	10.13
−15	4.499	9.651	25.65	53.39	143.2	364.4	70	0.2623	0.4976	1.169	2.229	3.465	8.485
−10	3.650	7.761	20.48	42.45	109.1	277.4	75	0.2286	0.4345	1.014	1.924	2.918	7.132
− 5	2.979	6.275	16.43	33.89	83.72	212.2	80	0.2000	0.3808	.8838	1.669	2.469	6.025
0	2.449	5.113	13.29	27.28	64.87	164.0	85	0.1752	0.3347	.7725	1.451	2.097	5.108
5	2.024	4.187	10.80	22.05	50.52	127.5	90	0.1537	0.2950	.6774	1.266	1.789	4.348
10	1.684	3.454	8.839	17.96	39.70	99.97	95			.5963	1.108	1.531	3.714
15	1.408	2.862	7.266	14.68	31.36	78.76	100			.5267	.9735	1.316	3.186
20	1.184	2.387	6.013	12.09	24.96	62.56	105			.4656	.8575	1.134	2.743
25	1.000	2.000	5.000	10.00	20.00	50.00	110			.4130	.7579	0.9812	2.370
30	.8486	1.684	4.179	8.313	16.12	40.20							

(Unit:kΩ)